

## ABSTRACT

Sub B<sup>2</sup> 5 ~~The present invention has its object to provide a ceramic heater which has a high thermal conductivity so that the surface temperature of the heater plate promptly follows the temperature change of the heating element to control the temperature of the wafer-heating surface with high efficiency and the thermal diffusion of impurity from the ceramic heater can be successfully prevented.~~

10 This invention provides a ceramic heater comprising a nitride ceramic substrate and a heating element either on the surface or internally of said substrate

wherein said nitride ceramic board contains an element other than constituent elements of nitride ceramics and a  
15 work-heating surface has the JIS B 0601 surface roughness of ~~Rmax = 0.2 to 200  $\mu$ m.~~